

## A Review of the Anthribidae (Coleoptera) from the Korean Peninsula

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**Abstract** In the review of the family Anthribidae (Coleoptera; Curculionoidea) from the Korean peninsula, 38 species of 27 genera are recognized. New taxa, records, regards of misidentification and synonymies treated in this paper are as follows. A new species *Uncifer triangulus* sp. nov. and a new subspecies, *Platystomos sellatus longicrus*, subsp. nov. are described, and nine species, <*Xanthoderopygus watanabei* Senoh, *Araecerus tarsalis* Sharp, *Choragus cryphaloides* Sharp, *Androceras flavellicornis* (Sharp), *Gonotropis gibbosa* LeConte, *Autotropis basipennis* (Sharp), *Uncifer difficilis* (Sharp), *Uncifer truncatus* (Sharp), and *Phaulimia confinis* (Sharp)>, are reported for the first time from Korea. *Exechesops elenae* Egorov is dealt with a synonym of *Exechesops foliatus* Frieser. Keys to the subfamilies, tribes, genera and species are provided.

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**Key words** Anthribidae, Curculionoidea, Coleoptera, Taxonomy, Korea

### INTRODUCTION

The family Anthribidae belong to Curculionoidea are generally called as fungus weevils, and the body is often strongly sclerotized and oblong oval. They can be easily distinguished from other families in Curculionoidea by the broad and somewhat flattened rostrum, dark colored derm with whitish, ochreous, brownish or blackish pubescence, and 3-4 segmented antennal club. The antennae are not elbowed. Most of anthribid larvae live in dead wood which was affected by fungi, but the species of the genus *Anthribus* in Asia and Europe are predacious and feed on the eggs of Coccidae of Homoptera.

The first report of Anthribidae in Korea was *Brachytarsus kuwanai* Yuasa (= *Anthribus kuwanai* (Yuasa)) by Haku (1936). Most records of the Korean anthribidae have been cited, based on the various faunal researches. The first checklist of the family in Korea was made by Kwon and Lee (1986) with nine species. After that, Senoh (1987) reported 13 Korean species including eight species new to Korea in his paper, "the Anthribid beetles of the Islands of Tsushima (Japan)". Yoon *et al.* (1991), Frieser (1995),

Egorov (1996), Park and Woo (1997), and Park and Morimoto (1999) added nine species to Korean fauna.

The species, *Rhaphitropis truncatoides* Morimoto by Park and Woo (1997), is a misidentification of the *Uncifer triangulus* sp. nov. The previous records of Anthribidae in Korea are as following table 1. Consequently, a total of 28 species belonging to 21 genera of the family Anthribidae is recognized from Korea.

The specimens examined are based on the following organizations: College of Agriculture and Life Sciences, Seoul National University [SNU]; The insect museum of National Institute of Agricultural Science & Technology [NIAST]; Kyungpook National University [KPNU]; Korea University [KU],

**Table 1.** Historical review of the species belongs to the Anthribidae in Korea with corresponding references

Author (year)	No. species added	Species reported	Remarks
Haku (1936)	1	<i>Brachytarsus kuwanai</i> Yuasa	= <i>Anthribus kuwanai</i> (Yuasa)
Mochizuki & Tsunekawa (1937)	1	<i>Brachytarsus nigrovariegatus</i> Roelofs	= <i>Anthribus niveovariegatus</i> (Roelofs)
Yokoo & Taguchi (1938)	1	<i>Araecerus fasciculatus</i> (DeGeer)	= <i>Araecerus fasciculatus</i> (DeGeer)
Doi (1938)	2	<i>Tropideres laxus</i> Sharp <i>Zygaenodes leucopis</i> Jordan	= <i>Sphinctotropis laxus</i> (Sharp) = <i>Exechesops leucopis</i> (Jordan)
Senoh (1981)	1	<i>Tropideres naevulus</i> Faust	
Kwon & Lee (1986)	4	<i>Euparius oculatus</i> (Sharp) <i>Platystomos sellatus</i> (Roelofs) <i>Sintor dorsalis</i> (Sharp) <i>Gibber nodulosus</i> (Sharp)	→ <i>Platystomos sellatus longicrus</i> subsp. nov.
Senoh (1987)	8	<i>Choragus compactus</i> Sharp <i>Deropygus histrio</i> Sharp <i>Opanthribus tessellatus</i> (Boheman) <i>Ozotomerus japonicus</i> Sharp <i>Platystomos albinus</i> (Linne) <i>Tropideres cyaneotergum</i> Oda <i>Autotropis distinguenda</i> (Sharp) <i>Aphaulimia debilis</i> (Sharp)	→ <i>Ozotomerus japonicus laferi</i> Egorov
Yoon <i>et al.</i> (1991)	1	<i>Rhaphitropis nigromaculata</i> Morimoto	
Frieser (1995)	1	<i>Exechesops foliatus</i> Frieser	
Egorov (1996)	1	<i>Oxyderes fastigata</i> (Jordan)	
Park & Woo (1997)	3	<i>Enedreytes gotoi</i> Shibata <i>Sympaector rugirostris</i> (Sharp) <i>Litocerus securus</i> (Boheman)	
Park & Morimoto (1999)	4	<i>Euparius koreanus</i> Park et Morimoto <i>Eucorynus crassicornis</i> (Fabricius) <i>Habrissus analis</i> Morimoto <i>Uncifer angulatus</i> Park et Morimoto	
Total	28 species in 24 genera		

Gyeongsang National University [GSNU], Sungshin Women's University [SSWU], Forestry Research Institute [FRI], Jeju Natural History Museum [JJNHM] in Korea, and Kyushu University [KSU-J] in Japan. Abbreviations for the geographical name of the province in Korea are used in this paper as follows; GG: Gyeonggi-do, GW: Gangweon-do, CB: Chungcheongbug-do, CN: Chungcheongnam-do, JB: Jeonrabug-do, JN: Jeonranam-do, GB: Gyeongsangbug-do, GN: Gyeongsangnam-do, JJ: Jeju-do,

## SYSTEMATICS

### Family Anthribidae Billberg, 1820 소바구미과

Key to subfamilies of the family Anthribidae in Korea

1. Antennae inserted in the dorsal surface of rostrum or head; antennal segment 1-2 asymmetrical, strongly arched; distal hemisternites without transverse bars at the junction with the proximal hemisternites; four Malpighian tubules ..... Choraginae
- Antennae inserted in the lateral surface of rostrum (dorsolateral in *Ozotomerus*); antennal segment 1-2 more or less symmetrical, not arched; distal hemisternites with transverse bars at the junction with the proximal hemisternites; six Malpighian tubules ..... Anthribinae

### Subfamily Choraginae Kirby, 1819 꼬마소바구미아과

Key to tribes of the subfamily Choraginae

1. Eyes circular, the upper edges not closer to each other than the lower ..... Araecerini
- Eyes oblong-oval, the upper edges closer to each other than the lower ... Choragini (Genus *Choragus*)

### Tribe Araecerini Lacordare, 1866 술소바구미족

*Araecérides* Lacordare, 1866, Gen. Col. 7: 588.

Araecerini Stein, 1868, Catal. Col. Europe: 115.

Araecerini Valentine, 1960. Trans. Amer. Ent. Soc. 86: 48.

Key to genera of the tribe Araecerini

1. First foretarsal segment about 1/2 times as long as the remaining segments combined ..... 2
- First foretarsal segment much longer than 1/2 times of the remaining segments combined .... *Araecerus*
2. Interocular width wider than interscrobial area. Eye almost round ..... *Deropygus* (*D. histrio* Sharp)
- Interocular width narrower than interscrobial area or almost same. Eye large and strongly expanded laterally ..... *Xanthoderopygus* (*X. watanabei* Senoh)

### Genus *Deropygus* Sharp, 1891

*Deropygus* Sharp, 1891, Trans. Ent. Soc. London: 326. [Type species (= TS): *Deropygus histrio* Sharp]

***Deropygus histrio* Sharp** 무늬박이소바구미

*Deropygus histrio* Sharp, 1891, Trans. Ent. Soc. London: 326.

*Previous records.* Senoh (1987), Hayashi *et al.* (1994).

*Distribution.* Korea, Japan.

**Genus *Xanthoderopygus* Senoh, 1984**

*Xanthoderopygus* Senoh, 1984, Trans. Shikoku Ent. Soc. 16(3): 31. [TS: *Deropygus flavicollis* Morimoto]

***Xanthoderopygus watanabei* Senoh** 앞주홍무늬소바구미 (신칭)

(Fig. 1)

*Xanthoderopygus watanabei* Senoh, 1984, Trans. Shikoku Ent. Soc. 16(3): 32.

*Body length.* 1.9 mm (excl. head).

*Materials examined.* [SNU] 1 ♂, Mt. Odae, GW, 27 V 1998 (SW Park).

*Distribution.* Korea (new record), Japan.

**Genus *Araecerus* Schoenherr, 1823**

*Araecerus* Schoenherr, 1823, Isis von Oken, 10: 1135. [TS: *Anthribus coffeae* Fabricius]

Key to species of the genus *Araecerus*

1. Fore tibiae simple or at most with a row of minute granules on the underside. 1st tarsus almost six times as long as width of it ..... *A. fasciculatus* (DeGeer)
- Fore tibiae serrate or with tooth-like granules on underside. 1st tarsus 2.5–3 times as long as width of it ..... *A. tarsalis* Sharp

***Araecerus fasciculatus* (DeGeer)** 술소바구미

(Fig. 2)

*Curculio fasciculatus* DeGeer, 1775, Ins. 5: 276.

*Anthribus coffeae* Fabricius, 1801, Syst. El. 2: 411.

*Amblycerus japonicus* Thunberg, 1815, Nova Acta Ups. 7: 122.

*Body length.* 2.5–4.0 mm (excl. head).

*Materials examined.* [KPNU] 1 ♀, Is. Heuksan, CN, 13 VIII 1981 (YJ Kwon), [NIAS] Suwon, GG, 18 III 1998 (MS Cho); 1ex, Namwon, JJ, 27 VIII 1997 (SB Ahn); 3exs, Seosan, CN, 5 IX 1997 (SK Lee); 8exs, Seogwipo, JJ, 27 VIII 1997 (KJ Hong); 3exs, Suwon, GG, 24 VIII 1995 (KJ Hong), 4exs, Seoul, 25 VIII 1992 (SH Lee); Bukjeju, JJ, 18 IX 1996 (SB Ahn); Daho, JJ, 19 IX 1996 (SB Ahn); Eoeum, JJ, 14 VII 1993 (SH Jung), [SNU] 4 ♀, Dangjin, CN, 20 IX 1998 (SH Lee); 3 ♂, 6 ♀, Seoul, 20 X 1993 (SW Park); Incheon, GG, 23 V 1998 (BW Lee).

*Previous records.* Yokoo & Taguchi (1938), Doi (1938), Cho (1957), Kwon & Lee (1986), Egorov (1996).

*Distribution.* Cosmopolitan.

*Remarks.* Male pygidium is dentate and its apical area is roundly marginate, but female pygidium is triangular and pointed at apex.

### ***Araecerus tarsalis* Sharp** 짧은발술소바구미 (신칭)

(Fig. 3)

*Araecerus tarsalis* Sharp, 1891, Trans. Ent. Soc. London: 323.

*Body length.* 2.1–3.7 mm (excl. head).

*Materials examined.* [FRI] Is. Ulneung, GB, 24 V 1995 (TS Kwon), 1 ♂, same locality, 25 V 1995 (HC Park), 1 ♂, same locality, 11 VIII 1995 (HC Park), 1 ♂, same locality, 2 V 1995 (HC Park); [KPNU] 1 ♀, Is. Ulneung, GB, 1 X 1995 (YJ Kwon), 1 ♂, same locality, 3 X 1995 (YJ Kwon); 1 ♀, Jungmun, JJ, 12 VIII 1984 (YJ Kwon); 1 ♀, Is. Juk, GN, 17 VIII 1995 (YJ Kwon); [NIAS] Aewol, JJ, 26 VIII 1997 (KJ Hong).

*Distribution.* Korea (new record), Japan.

*Remarks.* This species is similar to *A. fasciculatus* (DeGeer), but can be easily distinguished from the latter by much short 1st tarsi and 9–10th antennal segments with horizontal posterior margin. Posterior margin of 9–10th segments of *A. fasciculatus* (DeGeer) are somewhat slant.

### **Tribe Choargini Kirby, 1819** 꼬마소바구미족

Choraginae Kirby, 1819, Trans. Linn. Soc. London 12: 447.

*Choragina* Thomson, 1865, Skandinaviens Col.: 13.

Choragini Bedel, 1882, Ann. Soc. Entomol. France: 5.

### **Genus *Choragus* Kirby, 1818**

*Choragus* Kirby, 1819, Trans. Linn. Soc. London 12: 447. [TS: *Choragus sheppardi* Kirby]

Key to species of the genus *Choragus*

1. Lateral carina present obviously. Hind angles of pronotum sharply prolonged beneath humeral angle of elytra ..... *C. compactus* Sharp
- Lateral carina obscure and very short ..... *C. cryphaloides* Sharp

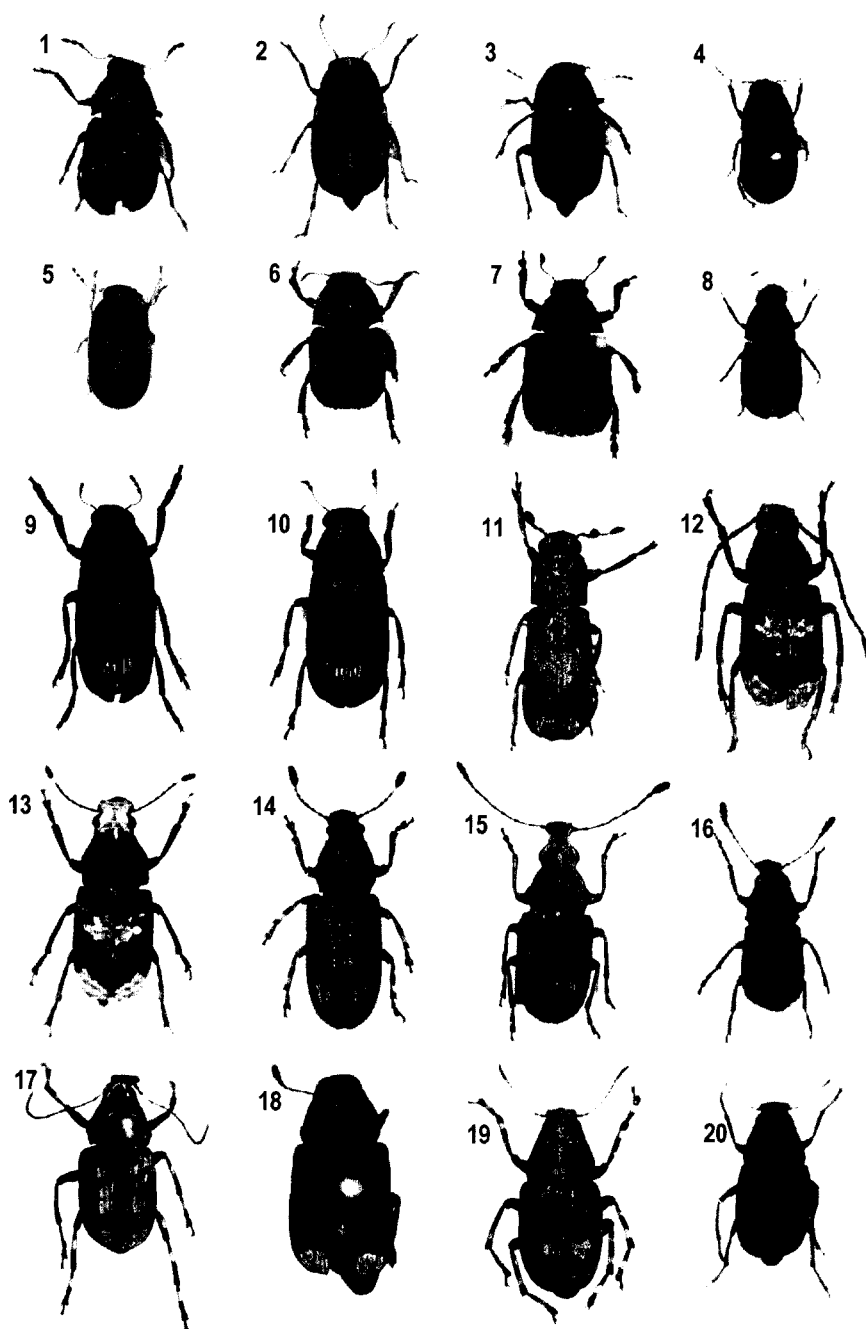
### ***Choragus compactus* Sharp** 꼬마소바구미

(Fig. 4)

*Choragus compactus* Sharp, 1891, Trans. Ent. Soc. London: 323.

*Body length.* 3.6 mm (excl. head).

*Specimen examined.* [SNU] 1 ♀, Piagol, Gurye, JN. 17 VII 1968 (W.H. Paik).



**Figs 1-20.** Adults: 1. *X. watanabei* Senoh, ♂; 2. *A. fasciculatus* (DeGeer), ♂; 3. *A. tarsalis* (Sharp), ♂; 4. *C. compactus* Sharp, ♀; 5. *C. cryphaloides* Sharp, ♂; 6. *A. niveovariegatus* (Roelofs), ♂; 7. *A. kuwanai* Yuasa, ♂; 8. *O. tessellatus* (Boheman), ♂; 9. *E. koreanus* Park et Morimoto, ♂; 10. *E. oculatus* (Sharp), ♂; 11. *O. japonicus laferi* Egorov, ♂; 12. *P. sellatus longicrus*. subsp. nov. ♂; 13. *Ditto*, ♀; 14. *E. crassicornis* (Fabricius), ♂; 15. *S. dorsalis* (Sharp), ♂; 16. *E. gotoi* Shibata, ♂; 17. *S. rugirostris* (Sharp), ♂; 18. *A. flavellicornis* (Sharp), ♀; 19. *S. latus* (Sharp), ♂; 20. *L. securus* (Boheman), ♀.

*Previous records.* Senoh (1987).

*Distribution.* Korea, Japan.

***Choragus cryphaloides* Sharp 갈색꼬마소바구미 (신칭)**

(Fig. 5)

*Choragus cryphaloides* Sharp, 1891, Trans. Ent. Soc. London: 325.

*Body length.* 1.4–2.0 mm (excl. head).

*Materials examined.* [NIAST] ♂, Mt. Yeogi, GG, 3 VII 1995 (JY Choi), [SNU] ♂, Danyang, CB, 18 V 1997 (SW Park); 2 ♂, 10 ♀, Daejeon, CN, 20 V 1998 (SW Park); 1 ♂, 3 ♀, Mt. Seonggeo, CN, 17 V 1998 (SW Park).

*Distribution.* Korea (new record), Japan, Russian Far East.

*Remarks.* This species is similar to *C. compactus* Sharp, but can be easily distinguished from the latter by lateral carina. Lateral carina of *C. compactus* Sharp is clear and prolonged anteriorly, but this species has very short lateral carina.

**Subfamily Anthribinae Billberg, 1820 소바구미아과**

Key to tribes of the family Anthribinae

1. Dorsal prothoracic carina basal touching elytra ..... 2
  - Dorsal prothoracic carina apart from anterior margin of elytra ..... 5
2. Rostrum rapidly narrowing from base to apex; rostrum strongly carinated at side and the carinae reaching eye ..... Anthribini
  - Rostrum parallel-sided or widening anteriorly ..... 3
3. Mandible with a strongly toothed ventral cutting edge as well as the normal dorsal edge ..... Cratoparini (*Euparius*)
  - Mandible without a toothed cutting edge on the ventral side ..... 4
4. 4th antennal segment abnormally large in male; body long and cylindrical .... Ozotomerini (*Ozotomerus*)
  - ..... rostrum very short. lateral carinae reach to 3/4 of pronotum. .... *O. japonicus laferi* Egorov
  - 4th antennal segment normal in male; pronotum with tubercles ..... Platystomini
    - ..... Antennal scrobe distant from eye ..... *Platystomos*
5. Ventral side of antennal club flattened ..... 6
  - Ventral side of antennal club normal, not flattened ..... 8
6. Body elongate and slightly flattened ..... Ecelonerini (*Eucorynus*)
  - ..... 4 segmented antennal club. .... *E. crassicornis* (Fabricius)
  - Body not flattened ..... 7
7. Rostrum with median carina on the underside of rostrum ..... Sintorini (*Sintor*)
  - ..... V-shape of marking on the elytra ..... *S. dorsalis* Sharp
  - Rostrum without median carina on the underside of rostrum ..... Stenocerini (*Enedreytes*)
    - ..... Antennae club flattened ..... *E. gotoi* Shibata

8. Rostrum narrower than head at base ; rostrum longer than broad ..... 9  
 – Rostrum as broad as head at base ; rostrum broader than long ..... 10
9. Antennal funicle and club slender and long at least in male ..... Mycteini (*Sympaector*)  
 ..... Rostrum much longer than wide ..... *S. rugirostris* (Sharp)  
 – Antennal club broader than funicle in both sexes ..... Tropiderini
10. Eyes circular, oval or emarginate, the lower edges not closer to each other than the upper  
 ..... Zygaenodini  
 – Eyes oblong-oval, the lower edge much closer to each other than the upper ..... Corrhecerini

### Tribe Anthribini Billberg, 1820 참소바구미족

*Anthribides* Billberg, 1820, Enumeratio Insectorum in Musaeo Gust. Joh. Billberg 39.

*Brachytarsina* C. G. Thomson, 1859, Skandnaviens Coleoptera 128.

Anthribini Weise, 1891, In Heyden, L. von, Reitter, E. & Weise, J. 660.

Key to genera of the tribe Anthribini

1. Lateral carina of rostrum reaching the anterior margin of eye ..... *Anthribus*  
 – Lateral carina of rostrum prolonged posteriorly into the middle of eye ..... *Opanthribus*  
 ..... Elytra tessellated ..... *O. tessellatus* (Boheman)

### Genus *Anthribus* Geoffroy, 1762

*Anthribus* Geoffroy, 1762, 306. [TS: *Anthribus fasciatus* Forster, 1770]

*Brachytarsus* Schoenherr, 1823–c.1135. [TS: *Anthribus varius* Fabricius, 1787 = *Anthribus nebulosus* Forster, 1770]

*Paropus* [Fischer de Waldheim], 1829–84. [TS: *Anthribus varius* Fabricius, 1787 = *Anthribus nebulosus* Forster, 1770]

*Pseudobrachytarsus* Pierce, 1930–29, k. [TS: *Anthribus fasciatus* Forster, 1770]

Key to species of the genus *Anthribus*

1. Elytra with striae inside depressed grooves between intervals. .... *A. niveovariegatus* (Roelofs)  
 – Elytra with normal striae; odd intervals more convex than even intervals. .... *A. kuwanai* (Yuasa)

### *Anthribus niveovariegatus* (Roelofs) 참소바구미

(Fig. 6)

*Brachytarsus niveovariegatus* Roelofs, 1879, Ann. Soc. Ent. Belg. 22: 21.

*Brachytarsus nigrovariegatus* Roelofs, 1880, Ann. Soc. Ent. Belg. 24: 29.

Body length. 2.3–4.5 mm (excl. head).

Materials examined. Mt. Yurak, 6 IX 1941 (A Kwon); [KU] Mt. Yongmun, GG, 30 IV 1989 (KD Han); [KPNU] 1 ♀, Mt. Jiri, KN, 5 VI 1983 (YJ Kwon); [SNU] 1 ♀, Suwon, GG, 26 VI 1958 (WH Paik), 4 ♂, 3 ♀, same locality, 23 VI 1959 (WH Paik), 1 ♂, 1 ♀, same locality, 13 VII 1958 (WH Paik); ♀, Bonjang,



11 V 1966 (KN Park).

*Previous records.* Mochizuki & Tsunekawa (1937), Kwon & Lee (1986), Hayashi *et al.* (1994).

*Distribution.* Korea, Japan, Russian Far East.

*Remarks.* Female ventrites are slightly convex and pygidium broader than those of male.

***Anthribus kuwanai* (Yuasa) 찰막소바구미**

(Fig. 7)

*Brachytarsus kuwanai* Yuasa, 1931, Oyo-Dobutsugaku Zasshi 3: 21.

*Anthribus vandykei* Jordan, Novit. Zool. 38: 383.

*Body length.* 4.0–6.3 mm (excl. head).

*Materials examined.* [NIAS] Saishuto, 21 V 1919 (C Inoue); [SNU] 3 ♂, 4 ♀, Suwon, GG, 21 VI 1963 2 ♂, 3 ♀, same locality, 29 VI 1959 (WH Paik), Anjung, GG, 7 VI 1992 (JK Noh); 1 ♀, Anyang, GG, 28 V 1989 (SJ Song); Namyangju, GG, 3 V 1986; Mt. Surak, GG, 11 VI 1983 (MS Ju); [SSWE] Seoul, 27 V 1990 (MY Jung); Seoul, 7 III 1937; Mt. Namsan, GG, 5 VI 1934 (S Eguchi); Hyojadong, Seoul, 24 IV 1937.

*Previous records.* Paik (1936).

*Distribution.* Korea, Japan, China, Russian Far East.

*Remarks.* Female ventrites are slightly convex in the middle. This species is similar to *A. fasciatus* (Foerster), but can be easily distinguished by following characteristics: Pronotum sulcate longitudinally in the middle and humeral angle of elytra clearly black.

**Genus *Opanthribus* Schilsky, 1907**

*Opanthribus* Schilsky, 1907. [TS: *Brachytarsus tessellatus* Boheman, 1829]

*Paramesus* Fähræus, 1871b:443 (non Fieber, 1866). [TS: *Paramesus lituratus* Fähræus, 1871]

***Opanthribus tessellatus* (Boheman) 알락소바구미**

(Fig. 8)

*Brachytarsus tessellatus* Boheman, 1829, Nouv. Mem. Mosc.: 119.

*Brachytarsus fallax* Perris, 1875, L'Abeille. 13: 13.

*Body length.* 2.1–3.5 mm (excl. head).

*Materials examined.* [KPNU] 1 ♀, Ulju, GN, 28 V 1980 (YJ Kwon); 1 ♀, Mt. Juwang, GB, 27 VII 1984 (YJ Kwon); [SNU] 1 ♀, Cheongsong, GB, 27 IV 1994 (HS Lee); 1 ♀, Daejeon, CN, 15 V 1998 (SW Park); 21 ♂, 91 ♀, Mt. Baekun, JN, 27 VII 1998 (SW Park); [SSWU] Pyeongchang, GW, 23 VII 1998 (SY Kim)

*Previous records.* Senoh (1987), Hayashi *et al.* (1994), Egorov (1996).

*Distribution.* Korea, Japan.

**Tribe Cratoparini LeConte, 1876** 버섯소바구미족

*Cratopares* LeConte, 1876: 403.

*Eupariini* Valentine, 1960, Trans. Amer. Ent. Soc. 86: 49.

*Eupariini* Morimoto, 1972, Bull. Gov. Forest Exp. Sta. 246: 37.

**Key to species of the genus *Euparius***

1. Antennal club weakly asymmetrical, 2nd segment about as long as broad, with blunt antero-lateral corners ..... *E. koreanus* Park et Morimoto
- Antennal club asymmetrical, 2nd segment distinctly broader than long, with annulate antero-interior corner, ultimate segment of antennal club about as long as two preceding segments combined ..... *E. oculatus oculatus* (Sharp)

**Genus *Euparius* Schoenherr, 1826**

*Euparius* Schoenherr, 1823, Isis von Oken, Heft 10: 1135.

*Cratoparis* Dejena, 1834, Cat. Col., ed. 3: 235.

*Caccorhinus* Sharp, 1891, Trans. Ent. Soc. London: 321.

***Euparius koreanus* Park et Morimoto** 주홍버섯소바구미

(Fig. 9)

*Euparius koreanus* Park et Morimoto, 1999, J. Asian-Pacific Entomol. 2 (2): 97.

*Caccorhinus oculatus*: Doi (nec Sharp), 1938, Keijo Hakubuts kyoin Kaishi 2: 33; Cho, 1957, Hum. & Nat. 5: 100.

*Body length.* 6.5–8.0 mm (excl. head).

*Materials examined.* [KU] 3exs, Seoul, GG, 25 VI 1937., [SNU] 1 ♂, Mt. Seonggeo, CN, 31 V 1998 (SW Park); 1 ♀, Wonju, GW, 12 IX 1997 (SW Park); 1 ♀, Yangju, GG, 15 IX 1991 (SW Park); [SSWU] 1 ♀, Mt. Yongmun, GG, 1 IX 1980 (HK Park); 1 ♀, Mt. Surak, Seoul, 6 IX 1997 (HK Jeon).

*Previous records.* Park & Morimoto (1999).

*Distribution.* Korea.

*Remarks.* This species is very similar to *E. oculatus oculatus* (Sharp) and *E. oculatus koltzei* (Reitter), but can easily distinguished by the body color and the shape of the 10th antennal segment.

***Euparius oculatus oculatus* (Sharp)** 버섯소바구미

(Fig. 10)

*Caccorhinus oculatus* Sharp, 1891, Trans. Ent. Soc. London: 321.

*Caccorhinus oculatus* var. *niger* Nakane, 1955, Sci. Rep. Saikyo Univ. 2 (A): 39.

*Body length.* 5.5–8.4 mm (excl. head).

*Materials examined.* [KPNU] 1 ♂, Mt. Odae, GW, 9 VIII 1976 (SM Lee); [SNU] 2 ♂, 1 ♀, Mt. Baekun, JN, 28 VIII 1998 (SW Park).

*Previous records.* Kwon & Lee (1986), Senoh (1987), Hayashi *et al.* (1994).

*Distribution.* Korea, Japan.

### **Tribe Ozotomerini Morimoto, 1972** 길쭉소바구미족

Ozotomerini Morimoto, 1972, Bull. Gov. Forest Exp. Sta. 246: 37.

### **Genus Ozotomerus Perroud, 1853**

*Ozotomerus* Perroud, 1853, Ann. Soc. Linn. (2) 1: 406. [TS: *Ozotomerus maculosus* Perroud]

*Oedecerus* Montrouzier, 1857, Ann. Soc. Agr. 7: 46. [TS: *Oedecerus bipunctatus* Montrouzier]

*Dipieza* Pascoe, 1859, Ann. Mag. Nat. Hist. (3) 4: 331. [TS: *Dipieza waterhousei* Pascoe]

### ***Ozotomerus japonicus laferi* Egorov** 북방길쭉소바구미 (신칭)

(Fig. 11)

*Ozotomerus japonicus laferi* Egorov, 1986, Systematics and Ecology of the insects of the Far East: 15.

*Ozotomerus japonicus japonicus*: Senoh (nec Sharp), 1987. Biogeography of the Tsushima Island: 229-239; Hayashi *et al.*, 1994, The Coleoptera of Japan in Color (Vol. IV): 240.

*Body length.* 5.5-9.5 mm. (excl. head).

*Materials examined.* [CFNHM] 5 ♂, 5 ♀, Kwaneumsa, JJ, 15 VIII 1998 (SH Jung); ♂, Seonheul, JJ, 22 VII 1993 (SH Jung), 3 ♀, same locality, 30 VI 1994 (SH Jung); ♀, Seongpanak, JJ, 7 VIII 1996 (SH Jung), Seogwipo, JJ, 8 VII 1984 (KS Lee), [KWU] ♂, Seonheul, JJ, 11 VIII 1993 (KT Park); [NIAS] Cheongryangri, Seoul, GG, 25 VI 1969 (KN Park); Cheongryangri, Seoul, GG, 24 VI 1969 (KN Park); Cheongryangri, Seoul, 19 VII 1970 (KN Park); Mt. Okkye, 23 VII 1943; Busan, GN, 8 VII 1994 (JS Park); Namhaegun, GN, 24 VII 1998 (JS Park); Hadonggun, GN, 29 VII 1998 (JH Son); Jinju, GN, 27 VII 1984 (TS Oh); Mt. Yeogi, GG 22 VI 1984 (TS Oh), same locality, 29 VI 1992 (SH Lee), 2exs, same locality, 2 VII 1992 (SH Lee), 3exs, same locality, 4 VII 1992 (SH Lee), same locality, 7 VII 1992 (SH Lee), same locality, 14 VII 1992 (SH Lee), 2exs, same locality, 25 VII 1993 (SH Lee), same locality, 17 VI 1993 (SH Lee), same locality, 21 VI 1993 (SH Lee), same locality, 15 VII 1993 (SH Lee), same locality, 22 VII 1996 (SH Lee), same locality, 24 VII 1995 (JY Choi), same locality, 27 VI 1996 (JY Choi); Suwon, GG, 1 VI 1994 (JY Choi), same locality, 14 IX 1996 (KJ Hong), same locality, 28 VI 1997 (KJ Hong); [SNU] 2 ♂, Mt. Baekun, JN, 22 VI 1991 (IJ Lee); Mt. Kwanggyo, GG, 22 VII 1997 (SW Park); ♀, Seodaeyeon, CN, 28 VIII 1997 (SW Park); 1 ♂, Suwon, GG, 18 VI 1988 (SB Lee); Namhae, GN, 18 VIII 1993 (JY Choi); Suwon, GG, 5 VI 1997 (SH Lee); 1 ♀, Kanghwa, GG, 28 VII 1995 (JR Noh); Suwon, GG, 28 VII 1995 (TK Kim); [SSWU] Pyeongchang, GW, 29 VI 1985 (KS Jang); Mt. Bangtae, GW, 23 VI 1996 (SY Kim).

*Previous records.* Senoh (1987), Hayashi *et al.* (1994), Egorov (1996).

*Distribution.* Korea, Japan.

*Remarks.* The 4th antennal segment of the male enlarged abnormally. Female has normal fourth segment. Egorov (1985) reported the subspecies, *Ozotomerus japonicus laferi* Egorov. Recently, Egorov (1996) reported this subspecies distributed in Korea. He distinguished it from *O. japonicus japonicus*

Sharp by 4th antennal segment in the male and the shape of tegmen. The Korean specimens coincide with *O. japonicus laferi* in those characters. So, I conclude the Korean species as *O. japonicus laferi*.

### **Tribe Platystomini Pierce, 1916 흰벌소바구미족**

*Anthribina* Thomson, 1859, Skandnaviens Col.: 128.

*Platystomodea* Pierce, 1916, Proc. United States Nat. Museum 51: 463.

Platystomini Pierce, 1930, Proc. United States Nat. Museum 77 (17): 3.

Platystomini Valentine, 1960, Trans. Amer. Ent. Soc. 86: 48.

### **Genus Platystomos Schneider**

*Platystomos* Schneider, 1791, N. Mag. Lieb. Ent. 1 (1): 21. [TS: *Curculio albinus* Linnaeus, 1758]

*Macrocephalus* Olivier, 1789, Intr. Hist. Nat. Ins. 4 (3): 36 (non Swederus, 1787). [TS: *Curculio albinus* Linnaeus, 1758]

*Platystomos* Hellwig, 1792, Neues Magazin für die Liebhaber der Entomologie. 1(4): 393 (non Schneider, 1791). [TS: *Curculio albinus* Linnaeus, 1758]

*Anthotribus* Gistel, 1856, Die Mysterien der europäischen Insectewelt: 375 (non Hoffmann, 1803, nec Agassiz, 1846). [TS: *Curculio albinus* Linnaeus, 1758]

Key to species of the genus *Platystomos*

1. 9th antennal segments almost as long as 10th and 11th segments combined in male; 9th antennal segments with white pubescence in female ..... *P. albinus* Linne
- 9th antennal segments shorter than 10th and 11th segments combined in male; 9th antennal segments without white pubescence in female ..... *P. sellatus longicrus*, subsp. nov.

### ***Platystomos albinus* (Linnaeus) 참흰벌소바구미 (신칭)**

(Figs 21: 1, 22: 1a–g, 4a, 4b)

*Curculio albinus* Linnaeus, 1758, Syst. Nat. ed. 10: 385.

*Macrocephalus albinus*: de Geer, 1775, Ins. 5: 255.

*Platystomos albinus*: Schilsky, 1907, Käf. Eur. 64: 79.

*Previous records*. Senoh (1987), Egorov (1996).

*Distribution*. Korea (new record), Europe.

*Remark*. Korean specimens unexamined. This species easily distinguished from *P. sellatus* with elytral ratio on length and width. Male antennae of *P. albinus* are thicker than those of *P. sellatus*.

### ***Platystomos sellatus longicrus* subsp. nov. 우리흰벌소바구미 (신칭)**

(Figs 12, 13, 21: 2, 22: 2b–2d, 3b–3d, 4e, 4f)

*Anthribus daimis*: Mochizuki & Tsunekawa (nec Lewis), 1937, J. Chosen Nat. Hist. Soc. 22: 89.

*Platystomos sellatus*: Kwon & Lee (nec (Roelofs)), 1986, Ins. Koreana 6: 65.; Hayashi *et al.* (1994)

*Body length*. 6.5–10 mm (excl. head).

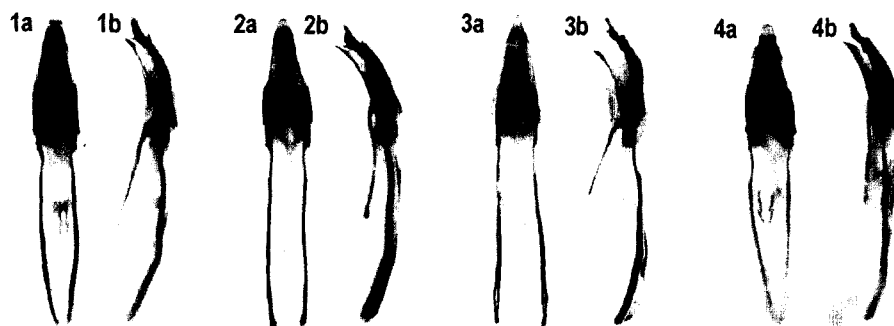
**Description.** Male: Body elongate oval, subparallel-sided, derm black. Dorsal surface of head covered with white pubescence; rostrum and front uneven, salebrose; rostrum sulcate in the middle of scrobes, carinated submarginally before eyes, with V-shaped ridge behind labrum; lateral margin of rostrum carinated and convex. Antennae slender, reach to preapical white patch of elytra; each segment of funicle with white pubescence band on the apical area, 10th segment with whit band at base. Pronotum mostly covered with brownish pubescence, with a white T-shaped patch along the anterior margin; three tubercles in the middle with black and light brown long setal fascicles. Elytra covered with brownish pubescence, subbasal area weakly tubercular with blackish setal fascicles surrounded with brownish setae; a narrow asteroid patch behind subbasal area; after asteroid patch three blackish setal fascicles located along the 3rd interval; apical area from last setal fascicle covered with white pubescence; preapical area tubercular. Legs with whitish band; middle and hind legs with first tarsus almost same length as the remainings combined. Pygidium with visible area as long as invisible area which covered with elytra.

Female: Antenna reached to posterior margin of pronotum; 10th antennal segment black, immaculate. Pygidium mostly covered with brownish pubescence.

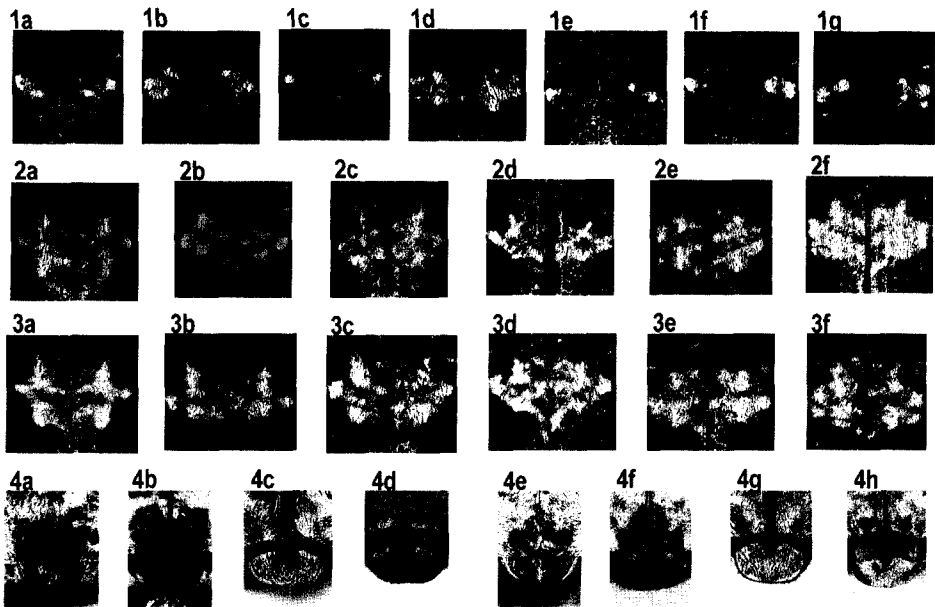
**Materials examined.** Holotype: 1 ♂, Mt. Daema, Seoul, 6 VIII 1997 (H.C. Park); Paratypes: [KPNU] 1 ♂, Mt. Namsan, GG, 20 VI 1971 (S.M. Lee); 1 ♂, Daegu, GB, 4 VII 1981 (Y.J. Kwon); 1 ♂, Is. Hong, JN, 20 VII 1976 (S.M. Lee); 1 ♀, Mt. Kwangdeok, 10 VII 1982 (S.M. Lee); 1 ♀, Ulju, GB, 24 VI 1990 (M.H. Cha); 1 ♀, Taejeon, GN, 28 V 1987 (Y.J. Kwon); 1 ♀, Gwangleung, GG, 27 VI 1984 (G.J. Weon); [SNU] 1 ♀, Mt. Baekun, JN, 28 VII 1998 (S.W. Park); 1 ♀, Mt. Baekun, JN, 10 VIII 1993 (S.W. Park); 1 ♀, Suwon, GG, 27 VII 1994 (H.S. Lee); 1 ♀, Daehyeon, Andong, GB, 12 VIII 1999 (J.Y. Choi); [NIAS] 1 ♀, Mt. Yeogi, Suwon, GG, 23 VIII 1998 (J.Y. Choi); 1 ♂, Mt. Yeogi, Suwon, GG, 6-13 VII 1994 (J.Y. Choi).

**Distribution.** Korea.

**Remarks.** This species is similar to *P. albinus* (Linne), *P. sellatus* (Roelofs), and *P. sellatus asteromaculatus* (Oda). However, it can be easily distinguished from *P. albinus* (Linne) by antennal and tarsal characters and from *P. sellatus* (Roelofs) and *P. sellatus asteromaculatus* (Oda) by male genitalia,



**Fig. 21.** Male Genitalia. (1: *P. albinus* (Linne), 2: *P. sellatus longicrus*, subsp. nov., 3: *P. sellatus* (Roelofs), 4: *P. sellatus asteromaculatus* (Oda), a: Dorsal aspect, b: Lateral aspect).



**Fig. 22.** Elytral and pygidial pubescence patch. (1a-g, 4a, 4b: *P. albinus* (Linne); 2a, 3a, 4c, 4d: *P. sellatus asteromaculatus* (Oda); 2b-2d, 3b-3d, 4e, 4f: *P. sellatus longicrus*, subsp. nov.; 2e, 2f, 3e, 3f, 4g, 4h: *P. sellatus* (Roelofs); 1a-e, 2a-f, 4a, 4c, 4e, 4g: male; 1f, 1g, 3a-3f, 4b, 4d, 4f, 4h: female).

tarsal length, 10th female antennal segment, pronotal and elytral pubescence patch and pubescence color of pygidium. Although the superficial difference of these three species, except *P. albinus*, are not so distinct, their geographical distributions are clearly separated each other subspecies. Thus I describe Korean population as a new subspecies and revise the status of *P. asteromaculatus* Oda as a subspecies of *P. sellatus*.

The key to subspecies of *P. sellatus* in Korea and Japan

1. Pygidium covered with brownish pubescence ..... *P. sellatus longicrus* subsp. nov.
- Pygidium covered with whitish pubescence ..... 2
2. The setal fascicles on pronotum short; Elytra with an whitish circular patch; setal fascicles of elytra black ..... *P. sellatus sellatus* (Roelofs)
- The setal fascicles on pronotum somewhat long; Elytra with an whitish asteroid patch; setal fascicles of elytra long and black in the middle and surrounded with ocherous long setae ..... *P. sellatus asteromaculatus* (Oda), **stat. nov.**

#### Tribe Ecelonerini Lacordaire, 1866 털보소바구미족

*Ecelonerides* Lacordaire, 1866, Gen. Col. 7: 562.

Ecelonerini Morimoto, 1972, Bull. Gov. Forest Exp. Sta. 246: 43.

**Genus *Eucorynus* Schoenherr, 1823***Eucorynus* Schoenherr, 1823, Isis von Oken. (10): 1135. [TS: *Anthribus crassicornis* Fabricius]***Eucorynus crassicornis* (Fabricius) 털보소바구미**

(Fig. 14)

*Anthribus crassicornis* Fabricius, 1801, Syst. Eleuth. 2: 407.*Body length.* 6.1–10 mm (excl. head).*Materials examined.* [KSU-J] 3 ♂, 5 ♀, Donneko, CJ, 28 IX 1990, M-T. Chujo; [SNU] 1 ♂, Donneko, CJ, 28 IX 1990, M-T. Chujo; 5 ♂, 6 ♀, Donneko, CJ, 29 IX 1990 (S.W. Park).*Previous records.* Park & Morimoto (1999).*Distribution.* Korea, Japan, China, Taiwan. Kampuchea, Thailand, Malaysia, Singapore, Philippine, India.**Tribe *Sintorini* Lacordaire, 1866 줄무늬소바구미족***Sintorides* Lacordaire, 1866, Gen. Col. 7: 510.*Sintorini* Morimoto, 1972, Bull. Gov. Forest Exp. Sta. 246: 38.**Genus *Sintor* Schoenherr, 1839***Sintor* Schoenherr, 1839, Gen. Curc. 5: 148. [TS: *Sintor quadrilatus* Fåhraeus]*Blabirhinus* Sharp, 1891, Trans. Ent. Soc. London: 299. [TS: *Blabirhinus dorsalis* Sharp]***Sintor dorsalis* (Sharp) 줄무늬소바구미**

(Fig. 15)

*Blabirhinus dorsalis* Sharp, 1891, Trans. Ent. Soc. London: 299.*Sintor dorsalis intermedius* Shibata, 1969, Ent. Rev. Jap. 22: 14.*Body length.* 4.0–5.3 mm (excl. head).*Materials examined.* [FRI] Gwangleung, GG, 9 VI 1974 (GJ Weon); [KPNU] 1 ♀, Mt. Palgong, GB, 1 VI 1985 (YJ Kwon); Mt. Obong, GN, 17 V 1981 (YJ Kwon); 1 ♂, Mt. Palgong, GB, 20 VI 1985 (YJ Kwon); 1 ♂, Mt. Palgong, GB, 28 VI 1985 (YJ Kwon); Mt. Palgong, GB, (YJ Kwon); 1 ♂, Mt. Sobaek, GB, 20 VII 1977 (SM Lee); 1 ♀, Mt. Unmun, GB, 18 V 1985 (YJ Kwon); 1 ♀, Mt. Juheul, 5 VI 1983 (YJ Kwon); 1 ♀, Mt. Wonhyo, GN, 31 V 1980 (YJ Kwon); 1 ♀, Mt. Hwaak, GG, 23 V 1978 (SM Lee); [NIAS] Seongpanak, JJ, 12 VI 1983 (SH Lee); Mt. Sudo, GB, 1 IX 1995 (JY Choi); 1 ♂, Chuncheon, GW, 1 VI 1993 (SH Lee); 1 ♀, Mt. Bukhan, Seoul, 9 V 1998 (JS Jeon); Gwangleung, GG, 9 V 1987 (SY Yun); [SSWU] Mt. Chiak, Wonju, GW, 15 VI 1999 (JI Kim); [SNU] 1 ♂, Namhansanseong, GG, 3 V 1998 (TH Kang); Mt. Sobaek, Yeongju, GB, 13 VIII 1999 (DS Ku).*Previous records.* Kwon & Lee (1986), Hayashi *et al.* (1994).*Distribution.* Korea, Japan.

**Tribe Stenocerini Kolbe, 1895** 흰무늬소바구미족

Stenocerinae Kolbe, 1895, Stettiner Entomologische Zeitung 55: 381.

Allandrini Pierce, 1930, Proc. U. S. Nat. Mus. 77: 18.

**Genus Enedreytes Schoenherr, 1839**

*Enedreytes Schoenherr*, 1839, Gen. Curc. 5: 215. [TS: *Enedreytes hilaris* Fähræus]

***Enedreytes gotoi* Shibata** 흰원무늬소바구미

(Fig. 16)

*Enedreytes gotoi* Shibata, 1969, Ent. Rev. Japan 22: 28.

*Body length.* 2.1 ~ 2.5 mm (excl. head).

*Materials examined.* [KPNU] 1 ♀, Ulju, GN, 24 V 1980 (YJ Kwon); [NIAS] 1 ♂, Kimcheon, GB, 2 VI 1997 (KJ Hong); [SNU] 1 ♀, Suwon, GG, 11 VIII 1982 (KS Woo); 1 ♀, Suwon, GG, 4 VII 1983 (KS Woo).

*Previous records.* Park & Woo (1997).

*Distribution.* Korea, Japan.

**Tribe Mycteini Morimoto, 1972** 딱부리소바구미족

Mycteini Morimoto, 1972, Bull. Gov. Forest Exp. Sta. 246: 41.

**Genus Sympaector Kirsch, 1875**

*Sympaector Kirsch*, 1875, Mitt. Mus. Dresd.: 52. [TS: *Sympaector vittifrons* Kirsch]

***Sympaector rugirostris* (Sharp)** 딱부리소바구미

(Fig. 17)

*Tropideres rugirostris* Sharp, 1891, Trans. Ent. Soc. London: 302.

*Body length.* 6.1 mm (excl. head).

*Materials examined.* [SNU] ♂, Gwangleung, GG, 1 V 1993 (SW Park); Mt. Myeongseong, Cheolwon, GW, 16 VI 1999 (DS Ku).

*Previous records.* Park & Woo (1997).

*Distribution.* Korea, Japan, Russian Far East.

**Tribe Tropiderini Lacordaire, 1866** 딱소바구미족

*Tropiderides* Lacordaire, 1866, Gen. Col. 7: 484.

*Acorynides* Lacordaire, 1866, Gen. Col. 7: 512.

*Tropiderini* Stein, 1868 Cat. Col. Europae: 15.

*Eurymycterini* Pierce, 1930, Proc. U. S. Nat. Mus. 77, Art. 17: 15.

*Acorynini* Morimoto, 1972, Bull. Gov. Forest Exp. Sta. 246: 37.



## Key to genera of the tribe Tropiderini

1. Rostrum separated from head by a deep transverse sulcus on the underside and without a median keel on the underside ..... *Androceras* (*A. flavellicornis* (Sharp))
  - Underside of rostrum rectangular to head in profil, without a deep transverse sulcus, with or without a median keel ..... 2
2. Antennae with club loosely articulated, 10th segment as long as its broad or longer than wide ..... 3
  - Antennae with club compactly articulated, 10th segment broader than long ..... 4
3. Eye located dorso-lateral, interocular width 2/5 times as wide as rostrum ..... *Sphinctotropis* (*S. laxus* (Sharp))
  - Eye closed each other, interocular width at most 1/5 times as wide as rostrum ..... *Litocerus* (*L. securus* (Boheman))
4. Elytra with tubercles on anterior area strongly ..... *Gonotropis* (*G. gibbosa* LeConte)
  - Elytra without tubercles on anterior area ..... *Tropideres*

**Genus *Androceras* Jordan, 1928**

*Androceras* Jordan, 1928, Novit. Zool. 34: 83. [TS: *Mucronianus khasianus* Jordan]

***Androceras flavellicornis* (Sharp) 표범무늬소바구미 (신칭)**

(Fig. 18)

*Tropideres flavellicornis* Sharp, 1891, Trans. Ent. Soc. London: 305.

*Androceras flavellicornis*: Shibata, 1963, Ent. Rev. Japan, 22: 22.

*Body length.* 7.2 mm (excl. head).

*Materials examined.* [SNU] 1 ♀, Kwangrung, GG, 2 X 1966 (YS Yun).

*Distribution.* Korea (new record), Japan.

**Genus *Sphinctotropis* Kolbe, 1894**

*Sphinctotropis* Kolbe, 1894, Stett. Ent. Zeit. 55: 379. [TS: *Sphinctotropis albofasciata* Kolbe]

*Spathorhamphus* T. A. Marshall, 1902, Bull. Soc. Ent. France 11: 210.

***Sphinctotropis laxus* (Sharp) 회떡소바구미**

(Fig. 19)

*Tropideres laxus* Sharp, 1891, Trans. Ent. Soc. London: 304.

*Litocerus laxus*: Morimoto, 1980, Esakia, 15: 32.

*Sphinctotropis laxus*: Frieser, 1983, Mitt. Münch. Ent. Ges. 73: 50.

*Body length.* 4.2–8.0 mm (excl. head).

*Materials examined.* [FRI] Gwangleung, GG, 20 VII 1975 (SJ Kim); 2exs, Gwangleung, GG, 10 VIII 1983 (GJ Weon); [KPNu] Mt. Chiak, GW, 13 VI 1976 (SM Lee); Mt. Hwaak, 21GG, 2 V 1978 (SM Lee); Mt. Sokri, 9 VI 1977 (SM Lee); Mt. Bukhan, GG, 10 VII 1976 (SM Lee); Mt. Bukhan, GG, 11 VII

1976 (SM Lee); Aengmubong, GG, 15 VI 1976 (SM Lee); Mokpo, JN, 2 X 1978 (YJ Kwon); Mt. Palgong, GB, 26 V 1985 (YJ Kwon); Mt. Yeongchui, GN, 30 VII 1986 (YJ Kwon); Mt. Sobaek, GB, 10 V 1985 (YJ Kwon); Mt. Suri, GG, 2 VII 1996 (YJ Kwon); [NIAS] Yeongdong, CB, 12 IX 1991 (JY Choi); Weonasa, GW, 24 VI 1994 (BK Byun); [SNU] Mt. Baekun, 2 VIII 1993 (GS Heo); Mt. Myeongji, GG, 17 V 1992 (SW Park); 2exs, Gwangleung, GG, 1 V 1993 (SW Park); Suwon, GG, 1 VI 1990 (HW Boo); Suwon, GG, 17 V 1992 (SW Park); 3exs, Mt. Taehwa, GG, 2 IX 1998 (DP Yu); Piagol, JN, 3 VI 1998 (JI Park); 2exs, Piagol, JN, 14 VI 1997 (SW Park); Mt. Baekun, Dapgok, GG, 27 VII 1998 (SW Park); Mt. Kwangkyo, GG, 9 IV 1998 (SW Park); Jangheung, GG, 30 V 1982 (KSUm); [SSWE] Mt. Soyo, GG, 13 V 1935 (S Eguchi); Mt. Soyo, GG, 15 V 1935 (S Eguchi); Namhansanseong, GG, 2 VI 1974 (EC Lee); Gachilbong, GW, 21 VI 1984 (IS Hyun).

*Previous records.* Doi (1938), Cho (1957), Kwon & Lee (1986), Senoh (1987), Hayashi *et al.* (1994).

*Distribution.* Korea, Japan, China, Russian Far East.

### Genus *Litocerus* Schoenherr, 1833

*Litocerus* Schoenherr, 1833, Gen. Curc. 1: 125. [TS: *Litocerus histrio* Gyllenhal]

#### *Litocerus securus* (Boheman) 붉은무늬떡소바구미

(Fig. 20)

*Tropideres securus* Boheman, 1839, Sch n. Gen. Curc. 5: 207.

*Litocerus rufescens* Roelofs, 1879, Ann. Soc. Ent. Belg. 22: 51.

*Tropideres rufescens*: Sharp, 1891, Trans. Ent. Soc. London: 307.

*Litocerus anna* Jordan, 1903, Novit. Zool. 10: 424.

*Body length.* 3.2–4.5 mm (excl. head).

*Materials examined.* [SNU] 1 ♂, Goesan, CB, 23 V 1993 (SW Park); 1 ♀, Paju, GG, 1 V 1997 (HK Shin); 1 ♀, Mt. Kujeol, GW, 28 V 1998 (SW Park).

*Previous records.* Park & Woo (1997).

*Distribution.* Korea, Japan, Taiwan, China, Russian Far East.

### Genus *Gonotropis* LeConte, 1876

*Gonotropis* LeConte, 1876, Proc. Amer. Phil. Soc. 15: 394. [TS: *Gonotropis gibbosa* LeConte]

#### *Gonotropis gibbosa* LeConte 복주머니떡소바구미 (신칭)

(Fig. 24)

*Gonotropis gibbosa* LeConte, 1876, Proc. Am. Phil. Soc. 15: 394.; Egorov, 1996, Key to the insects of Russian Far East 3(3): 194.

*Body length.* 4.3 mm (excl. head).

*Materials examined.* [KPNU] 1 ♀, Mt. Odae, GW, 19 VIII 1986 (YJ Kwon).

*Distribution.* Korea (new record), Russian Far East, Europe.

**Genus *Tropideres* Schoenherr, 1823***Tropideres* Schoenherr, 1823, Isis von Oken. 10: 1135. [TS: *Anthribus albirostris* Fabricius]Key to species of the genus *Tropideres*

1. Rostrum between eye and scrobe concave; tibia with one white pubescence ring

..... *T. cyaneotergum* Oda– Rostrum between eye and scrobe almost straight; tibia with two greyish rings. .... *T. naevulus* Faust***Tropideres cyaneotergum* Oda** 긴날개떡소바구미

(Fig. 25)

*Tropideres cyaneotergum* Oda, 1979, Trans. Shikoku Ent. Soc. 14: 115.*Body length.* 4.4–5.8 mm (excl. head).*Materials examined.* [FRI] 2♀, Gwangleung, GG, 15 V 1993 (TS Kwon); 1♂, 4♀, Gwangleung GG, 18 V 1993 (TS Kwon); Sungkyunkwan Univ. Seoul, 7 III 1937; Sungkyunkwan Univ. Seoul, 26 III 1938; 1♂, Cheongryangri, Seoul, XII 1982 (GJ Weon); [SNU] Mt. Baekun, JN, 29 VII 1997 (SW Park).*Previous records.* Senoh (1987), Hayashi *et al.* (1994).*Distribution.* Korea, Japan.***Tropideres naevulus* Faust** 날개떡소바구미

(Fig. 26)

*Tropideres naevulus* Faust, 1887, Deut. Ent. Zeit. 31: 162.*Tropideres germanus* Sharp, 1891, Trans. Ent. Soc. London: 304.*Tropideres vilis* Sharp, 1891, Trans. Ent. Soc. London: 305.*Tropideres yezoensis* Oda, Trans. Shikoku Ent. Soc. 14: 121..*Body length.* 3.3–5.8 mm (excl. head).*Materials examined.* [FRI] Hapcheon, GN, 10 V 1966 (KN Park); Cheongryangri, Seoul, 17 V 1984 (GJ Weon); Cheongryangri, Seoul, 31 V 1984 (GJ Weon); Cheongryangri, Seoul, 6 V 1983 (GJ Weon); Gwangleung, GG, 21 V 1982 (GJ Weon); 5exs, Gwangleung, GG, 18 VI 1993 (TS Kwon); Is. Ulneung, GB, 2 V 1995 (HC Park); JN, VIII 1929; Songcheonri, 30 V 1943; [KPNU] Mt. Sölak, GW, 9 VIII 1976 (YJ Kwon); Is. Ulneung, GB, 28 VI 1981 (YJ Kwon); Is. Ulneung, GB, 22 VI 1982 (YJ Kwon); Mt. Yeongchui, GN, 2 VI 1983 (YJ Kwon); Namyangju, GG, 22 V 1983 (YJ Kwon); Mt. Palgong, GB, 7 X 1984 (YJ Kwon); Mt. Palgong, GB, 15 V 1987 (YJ Kwon); Mt. Palgong, GB, 10 V 1984 (YJ Kwon); Mt. Kamak, GG, 14 VI 1971 (SM Lee); Mt. Kwangdeok, CN, 10 VII 1982 (SM Lee); [KSU-K] Mt. Chogyae, JN, 24 V 1988 (SY Jung); Mt. Hwanghak, GB, 4 VI 1978 (EH Kim); [SCU] Suncheon, JN, 6 VI 1998 (DG Seo); [NIAST] Daekwanryeong, GW, 13 VI 1973 (KY Choi); 2exs, Hwacheongun, GW, 25 V 1993 (DS Ku); Goseong, GN, 5 IX 1993 (DS Ku); [SNU] 2exs, Suwon, GG, 16 V 1993 (HJ Kim); Suwon, GG, 2 VI 1985 (JG Kim); Balan, GG, 15 V 1998 (SW Park); Daejeon, CN, 16 V 1998 (SW Park); Is. Soheuksando, JN, 19 VI 1973 (GR Choi); Gwangleung, GG, 21 V 1994 (SW Park); Mt. Bukhan, GG, 14

V 1998 (SW Park); Sangju, GB, 8 VI 1998 (KH Lee); 2exs, Mt. Chilbo, GG, 10 IV 1998 (SW Park); Mt. Baekun, JN, 28 VII 1998; Eorimok, CJ, 26 VIII 1998 (SW Park); Mt. Kujeol, GW, 28 V 1998 (S.W. Park); Mt. Cheonggye, Seoul, 12 V 1990 (MJ Seo); [SSWU] Mt. Myeongji, GG, 29 IV 1997 (JIKim); Nowongu, Seoul, 19 V 1991 (JI Kim).

*Previous records.* Senoh (1981, 1987), Kwon & Lee (1986), Hayashi *et al.* (1994).

*Distribution.* Korea, Japan.

*Remarks.* Male have a mucro at the end of the midtibia, but female not.

### **Tribe Zygaenodini Lacordaire, 1866** 소바구미족

*Zygaenodides* Lacordaire, 1866, Gen. Col. 7: 542.

*Zygaenodini* Morimoto, 1972, Bull. Gov. Forest Exp. Stat. 135: 38.

Key to genera of the tribe Zygaenodini

1. Angle of carina arched ..... 2
- Angle of carina edged ..... 3
2. Eye placed normally, antennal funicle thick ..... *Autotropis*
- Eye placed on stalks, which are somewhat long in male; male antenna much longer than female, antennal funicle slender ..... *Exechesops*
3. Basal angles of pronotum close to angles of carina ..... *Uncifer*
- Angles of carina distant from basal angles, often with carinulae between them  
..... *Rhaphitropis* (*R. nigromaculata* Morimoto)

### **Genus Autotropis Jordan, 1924**

*Autotropis* Jordan, 1924, Nov. Zool. 21: 241. [TS: *Autotropis modesta* Jordan]

Key to species of the genus *Autotropis*

1. Legs with apical half of tibiae, apical area of the first segment of tarsi and second segment of tarsi blackish ..... *A. basipennis* (Sharp)
- Tibia and tarsi concolorous; brownish circular derm color pattern around scutellum  
..... *A. distuinguenda* (Sharp)

### ***Autotropis basipennis* (Sharp) 홍얼룩띠소바구미 (신칭)**

(Fig. 27)

*Tropideres basipennis* Sharp, 1891, Trans. Ent. Soc. London: 301.

*Body length.* 3.5 mm (excl. head).

*Materials examined.* [KPNU] 1 ♂, Taegu, GB, 27 IV 1974 (Y.J. Kwon).

*Distribution.* Korea (new record), Japan.

***Autotropis distinguenda* (Sharp) 멧쟁이소바구미**

(Fig. 28)

*Tropideres distinguendus* Sharp, 1891, Trans. Ent. Soc. London: 310.*Body length.* 2.7–3.0 mm (excl. head).

*Materials examined.* [KPNU] 1 ♀, Mt. Sölak, GW, 27 VII 1982 (YJ Kwon); [NIAS] 1 ♂, Inje, GW, 27 V 1993 (DS Ku); 1 ♀, Yeosanhyugeso, JB, 13 IX 1996 (SB Ahn); 1 ♀, Daekwanryeong, GW, 11 VI 1997 (SB Ahn); [SNU] 1 ♀, Gwangleung, GG, 14 V 1991 (KD Han); 1 ♀, Gwangleung, GG, 21 V 1994 (SW Park).

*Previous records.* Senoh (1987), Hayashi *et al.* (1994).*Distribution.* Korea, Japan.**Genus *Exechesops* Schoenherr, 1847**

*Exechesops* Schoenherr, 1847, Vetensk. Akad. Forh.: 54. [TS: *Exechesops quadrituberculatus* Schoenherr]

*Zygaenodes* Pascoe, 1859, Ann. Mag. Nat. Hist. (3)4: 328. [TS: *Zygaenodes wollastoni* Pascoe]

Key to species of the genus *Exechesops*

1. Eyes placed on long stalk in male; rostrum rapidly narrowing from base to apex in male; elytra slightly tuberculated on the subbasal area ..... *E. leucopis* (Jordan)
- Eyes placed on short stalk in male; elytra without tubercles on the subbasal area ..... *E. foliatus* Frieser

***Exechesops leucopis* (Jordan) 소바구미**

(Fig. 29)

*Zygaenodes leucopis* Jordan, 1928, Nov. Zool. 36: 91.*Body length.* 3.7–6.2 mm (excl. head).

*Materials examined.* [KPNU] 2exs, Mt. Geonbong, KGN, 22 VIII 1992. (HC Park); Namhae, GN, 15 VIII 1991 (YJ Kwon); 4exs, Namsan, GG, 22 VIII 1937; Mt. Juwang, GB, 26 VII 1984 (SH Nam); 2exs, Donneko, JJ, 15 VII 1990 (KD Han); Donneko, JJ, 15 VII 1990 (JK Yun); Donneko, JJ, 15 VII 1990 (TJ Yun); Cheongryangri, Seoul, 2 VII 1981 (GJ Weon); 2exs, Cheongryangri, Seoul, 21 VII 1981 (GJ Weon); Cheongryangri, Seoul, 18 VII 1981 (GJ Weon); Cheongryangri, Seoul, 20 VII 1981 (GJ Weon); Kimcheon, GB, 1 IX 1995 (JY Choi); [SNU] 1 ♂, 2 ♀, Mt. Undal, GB, 9 VIII 1997 (SW Park); 1 ♂, Mt. Baekun, JN, 15 VIII 1993 (SW Park); 1 ♂, 2 ♀, Mt. Kwanak, Seoul, 30 IX 1996 (G Choi); 1 ♀, Mt. Jiri, JN, 27 VIII 1997 (HS Han); 1 ♂, 1 ♀, Suwon, GG; 1 ♀, Hapcheon, 14 VIII 1980 (KS Woo); Kangnamku, Seoul, 4 IX 1988 (K Mun); Namhansanseong, GG, 23 VIII 1995 (HE Ko); [SSWU] 2 ♂, 1 ♀, Kanghwa, GG, 12 VIII 1991 (JI Kim); Mt. Yongmun, GG, 25 VIII 1998 (SY Kim).

*Previous records.* Doi (1938), Miwa & Chujo (1939), Cho (1957), Kwon & Lee (1986), Senoh (1987), Hayashi *et al.* (1994), Egorov (1996).

*Distribution.* Korea, Japan, China.

***Exechesops foliatus* Frieser** 어리소바구미 (신칭)

(Fig. 30)

*Exechesops foliatus* Frieser, 1995, Acta Coleopterologica 11 (1): 28.*Exechesops elenae* Egorov, 1996, Key to the insects of Russian Far East 3 (3): 194, **syn. nov.***Body length.* 2.2–2.9 mm (excl. head).

*Materials examined.* [FRI] ♂, Mt. Wangbang, GG, 12 VI 1977, G. J. Weon; [KPNU] Mt. Sölak, 25 VIII 1982 (YJ Kwon); Mt. Sölak, GW, 26 VIII 1982 (YJ Kwon); Mt. Sölak, GW, 27 VII 1982 (YJ Kwon); 4exs, Mt. Juwang, GB, 19 VII 1981 (YJ Kwon); 5exs Mt. Juwang, GB, 26 VII 1984 (YJKwon); 7exs, Mt. Juwang, GB, 27 VII 1984 (YJ Kwon); 7exs, Mt. Juwang, GB, 28 VII 1984 (YJ Kwon); 5exs, Mt. Cheonggok, GB, 7 VIII 1991 (YJ Kwon); 3exs, Mt. Suri, GG, 21 VIII 1996 (YJ Kwon); [KU] ♂, Mt. Cheonma, GG, 31 VII 1991 (HC Park); [SNU] ♂, Mt. Deokyu, JB, 4 VII 1993 (SW Park); ♀, Mt. Naejang, 10 V 1975 (KR Choi).

*Previous records.* Frieser (1995), Egorov (1996).*Distribution.* Korea, China, Russian Far East.

*Remarks.* Male antennae are slender, reach to or exceed the apical margin of elytra, and 3rd segment is flattened and expanded apically. But, female antennae reach to the middle of elytra and 3rd segments not expanded. Frieser (1995) reported this species, based on the specimens collected in North Korea and Primorye of Russia. Egorov reported a new species *E. elenae* in 1996, but his description and figures coincided with Frieser's description. Thus, we synonymized *E. elenae* Egorov with *E. foliatus* Frieser.

**Genus *Uncifer* Jordan, 1904***Uncifer* Jordan, 1904, Ann. Mus. (3)1: 88. [TS *Uncifer sticticus* Jordan]Key to species of the genus *Uncifer*

1. Dorsal carina of pronotum round in the middle ..... 2
  - Dorsal carina of pronotum angulate in the middle ..... 3
2. Elytra with several pubescence patch, dorsal carina angulate before the angle of carina in each side .....
  - U. angulatus* Park et Morimoto
  - Elytra only with post scutellar pubescence patch ..... *U. difficilis* (Sharp)
3. Forehead between eyes 1/2 times as wide as rostrum in male; dorsal carina gently arched before the angle of carina. .... *U. truncatus* (Sharp)
  - Forehead between eyes 1/3 times as wide as rostrum; dorsal carina strongly angulate before the angle of carina ..... *U. triangulus* sp. nov.

***Uncifer angulatus* Park et Morimoto** 세줄애기소바구미

(Figs 23: a–c, k, 31)

*Uncifer angulatus* Park et Morimoto, J. Asia-Pacific Entomol. 2(2): 100.*Body length.* 1.9–2.4 mm (excl. head).

*Materials examined.* [SNU] 1 ♂, 10 ♀, Danyang, CB, 18 V 1997 (SW Park), 2exs, Mt. Sobaek, Yeongju, GB, 11–14 VI 1999 (DS Ku); 2exs, Mt. Myeongseondg, GG, 11–14 VI 1999 (DS Ku).

*Previous records.* Park & Morimoto (1999).

*Distribution.* Korea.

*Remarks.* This species is similar to *U. difficilis*, but can be easily distinguished from the latter by dorsal carina and much larger eye.

***Uncifer difficilis* (Sharp) 민무늬애기소바구미 (신칭)**

(Figs 23: d, e, m, 32)

*Tropideres difficilis* Sharp, 1891, Trans. Ent. Soc. London: 317.

*Body length.* 2.0–2.4 mm (excl. head).

*Materials examined.* [KPNU] ♀, Mt. Palgong, GB, 18 VI 1985 (YJ Kwon); [SNU] ♂, Mt. Chusan, CN, 23 VI 1995 (HS Lee).

*Distribution.* Korea (new record), Japan.

***Uncifer truncatus* (Sharp) 넓은가슴애기소바구미 (신칭)**

(Figs 23: i, j, n, 33)

*Tropideres truncatus* Sharp, 1891, Trans. Ent. Soc. London: 315.

*Body length.* 2.6 mm (excl. head).

*Materials examined.* [KPNU] ♀, Mt. Hanla, JJ, 10 VIII 1984 (Y.J. Kwon).

*Distribution.* Korea (new record), Japan.

***Uncifer triangulus* sp. nov. 얼룩애기소바구미 (신칭)**

(Figs 23: f–h, l, 34)

*Rhaphitropis truncatoides*, Park & Woo (nec Morimoto), 1997, Korean J. Appl. Entomol. 36 (3): 201.

*Body length.* 2.1–2.5 mm (excl. head).

*Description.* Male: Body blackish brown, tibiae, tarsi and antennae reddish brown. Head sparsely covered with whitish pubescence. Scutellum densely covered with white pubescence. Elytra covered with whitish pubescence enclosing somewhat large round patch on the each subbasal area, in the middle of elytra and preapical area. Pygidium sparsely covered with whitish pubescence. Rostrum short and wide, three times as wide as interocular width. Antennae shortly articulated and with proportion in length from base as 18: 15: 15: 13: 5: 12: 9: 10: 6: 11: 8: 12, width of tenth 9 (120 = 1 mm). Pronotum 1.4 times as wide as long, the sides slightly arched, dorsal carina of pronotum clearly bisinuate, angulate before fifth intervals of elytra and in the middle. Lateral carina extremely short, basal angle carinate. Elytra parallel sided and somewhat longer than wide (6 : 5), third interval wider than other intervals. Mesosternal process truncate between middle coxae. First ventrite depressed longitudinally in the middle. Posterior margin of third to fifth ventrites arched forward. Pygidium bent forward. Legs robust, femora clavate and hind

femora and tibia thicker than others.

Female: Antennal proportion almost same with male. Ventrites not depressed and posterior margin not arched.

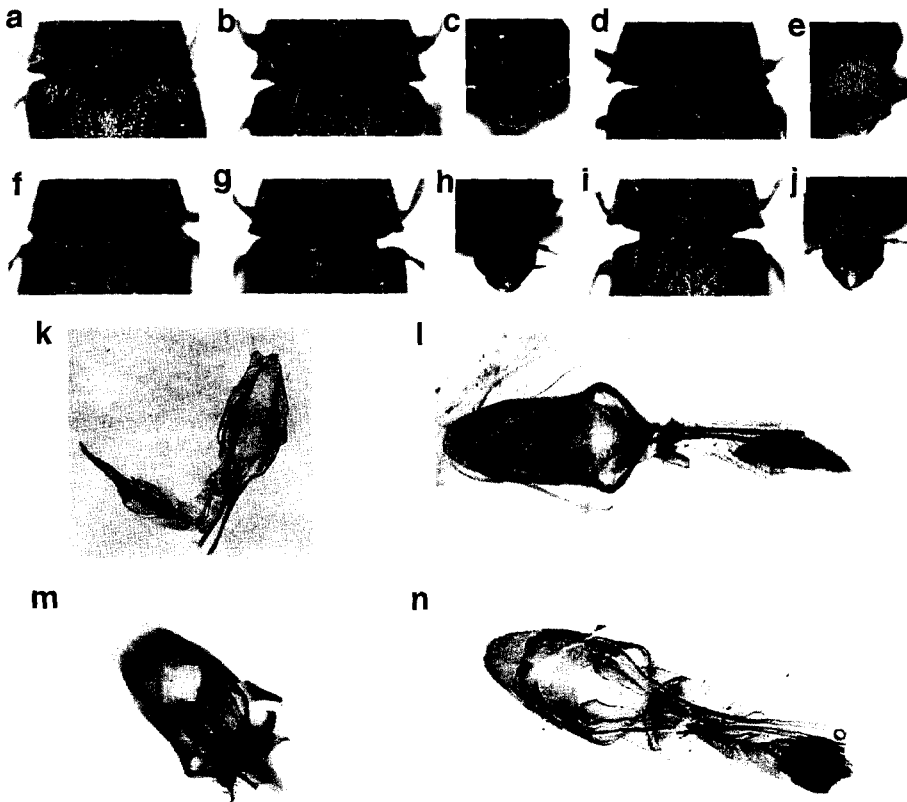
*Materials examined.* Holotype: [NIAST] ♂, Mt. Yeogi, Suwon, GG, 3 VII 1995 (JY Choi), Paratypes: [KPNU] ♀, Mt. Whangak, GB, 28 VI 1982 (YJ Kwon); ♀, Mt. Biseul, GB, 28 VI 1985 (YJ Kwon); [NIAST] 8 ♂, 2 ♀, Same data with holotype; ♂ Kimcheon, GB, 2 VI 1997 (KJ Hong); ♀, Geochang, GN, 6 VI 1997 (KJ Hong); ♂, Koseong, GN, 3 VI 1997 (KJ Hong); ♂, Mt. Sudo, GB, 16 VII 1996 (JY Choi); [SNU] ♂, Mt. Yeohang, Haman, GN, 20 VI 1993 (DS Ku).

*Distribution.* Korea.

*Remarks.* This species is similar to *U. truncatus*, but can be easily distinguished from the latter by the shortly articulated club of antenna, antennal proportion, and arched margin of ventrites.

### Genus *Rhaphitropis* Reitter, 1916

*Tropideres* subgenus *Rhaphitropis* Reitter, 1916, Faun. Germ. 5: 5.



**Fig. 23.** Dorsal carina, head and male genitalia of *Uncifer* species. (a-c, k: *U. angulatus* Park et Morimoto, d, e, m: *U. difficilis* (Sharp), f-h, l: *U. triangulus*, sp. nov., i-j, n: *U. truncatus* (Sharp); a, f, k-n: male; b-e, g-j: female).



*Rhaphitropis* Jordan, 1925, Ann. Mag. Nat. Hist. (9)16: 257.

***Rhaphitropis nigromaculata* Morimoto** 긴검정소바구미 (신칭)

(Fig. 35)

*Rhaphitropis nigromaculata* Morimoto, 1981, Esakia, (17): 98.

Body length. 2.2 mm (excl. head).

Materials examined. [KPNU] ♂, Mt. Seolak, GW, 9 VIII 1976 (YJ Kwon).

Previous records. Yoon *et al.* (1991).

Distribution. Korea, Japan.

Remarks. The specimen examined in this study is somewhat different from Morimoto's description in the pubescence markings, with little pubescence markings. Generally species in genus *Rhaphitropis* and *Uncifer* represent considerable variations in their pubescence pattern, thus, we identify Korean specimen as *R. nigromaculata* Morimoto.

**Tribe Corrhecerini Lacordaire, 1866** 얼룩소바구미족

*Corrhécérides* Lacordaire, 1866, Gen. Col. 7: 547.

Phaenithonini Pierce, 1930, Proc. Unit. Stat. Nat. Mus. 77 (17): 4.

Nessiariini Morimoto, 1972, Bull. Gov. Forest Exp. Sta. 246: 38.

Corrhecerini Morimoto, 1981, Esakia, 17: 78.

Key to genera of the tribe Corrhecerini

1. Prothorax strongly narrowing behind dorsal carina; elytra tuberculate ... *Gibber* (*G. nodulosus* (Sharp))
- Prothorax normally narrowing behind carina ..... 2
2. Rostrum with a median carina; antennal club somewhat slender, loosely articulate  
..... *Habrissus* (*H. analis* Morimoto)
- Rostrum without median carina; club broader than funicle ..... 3
3. Head sharply constricted on each side at the posterior edge of eye forming rectangular inflection, so that the posterior edges of eyes higher than the surface of head, shallow depressions run downwards from the constrictions ..... *Phaulimia* (*P. confinis* (Sharp))
- Head not constricted behind eyes ..... 4
4. Channel along the anterior margin of elytra obsolete on the dilated position; angles of prothoracic carina acute; rostrum strongly carinated on each side ..... *Oxyderes* (*O. fastigatus* (Jordan))
- Basal margins of elytra marginate throughout from the side to scutellum.; elytra straight at base.  
..... *Aphaulimia* (*A. debilis* (Sharp))

**Genus *Gibber* Jordan, 1895**

*Gibber* Jordan, 1895, Stett. Ent. Zeit. 56: 176. [TS: *Gibber tuberculatus* Jordan]

***Gibber nodulosus* (Sharp) 애혹소바구미**

(Fig. 36)

*Tropideres nodulosus* Sharp, 1891, Trans. Ent. Soc. London: 308.*Dissoleucas nodulosus* Wolfrum, 1953, Col. Cat. Suppl. 102: 27.*Body length.* 2.8–4.0 mm (excl. head).

*Materials examined.* [KNPU] ♀, Mt. Palgong, GB, 23 V 1981 (YJ Kwon); Mt. Taeun, GN, 28 V 1987 (YJ Kwon); Mt. Hakil, GB, 13 VIII 1997 (YJ Kwon); ♀, Mt. Deokyu, JB, 28 V 1991 (YJ Kwon); ♀, Mt. Palgong, GB, 25 V 1986 (YJ Kwon); ♂, Mt. Juwang, GB, 14 VI 1991 (YJ Kwon); [KU] ♀, Cheonan, CN, 11 V 1991 (KD Han); [NIAS] Mt. Jiri, JN, 4 VI 1977 (SJ Oh); Suwon, GG, 20 IV 1998 (SB Ahn); Bonghwagun, GB, 28 V 1993 (DS Ku); [SNU] ♀, Suwon, GG, 12 V 1992 (SJ Park); ♀, Kwangjugun, GG, 1 V 1994 (SW Park); ♀, Kwaneumsa, JJ, 23 V 1995 (KS Woo); ♂, Mt. Kwanggyo, GG, 11 IX 1995 (HS Lee); 2 ♀, Taejeon, CN, 15 V 1998 (SW Park); ♂, Mt. Baekun, JN, 28 VII 1998 (SW Park); ♀, Mt. Odae, GW, 2 VII 1998 (SW Park); ♂, Suwon, GG, 12 VIII 1998 (SW Park).

*Previous records.* Kwon & Lee (1986), Senoh (1987), Hayashi et al. (1994).*Distribution.* Korea, Japan.

*Remarks.* Antennal segments of female are slightly shorter than those of male. Only 5th ventrite is slant down.

**Genus *Habrissus* Pascoe, 1859***Habrissus* Pascoe, 1859, Ann. Mag. Nat. Hist. (3)4: 432. [TS: *Habrissus pilicornis* Pascoe]***Habrissus analis* Morimoto 배쌍혹소바구미**

(Fig. 37)

*Habrissus analis* Morimoto, 1981, Esakia 17: 98.*Body length.* 6.4 mm (excl. head).

*Materials examined.* [SNU] 1 ♂, Eorimok, JJ, 1 V 1993 (MT Chujo). [KSU-J] 1 ♂, 1 ♀, Eorimok, JJ, 1 V 1993 (MT Chujo).

*Previous records.* Park & Morimoto (1999).*Distribution.* Korea, Japan.**Genus *Phaulimia* Pascoe, 1859***Phaulimia* Pascoe, 1859, Ann. Mag. Nat. Hist. (3)4: 437.*Hypseus* Pascoe, 1860, Ann. Mag. Nat. Hist. (3)5: 39.***Phaulimia confinis* (Sharp) 안경소바구미 (신칭)**

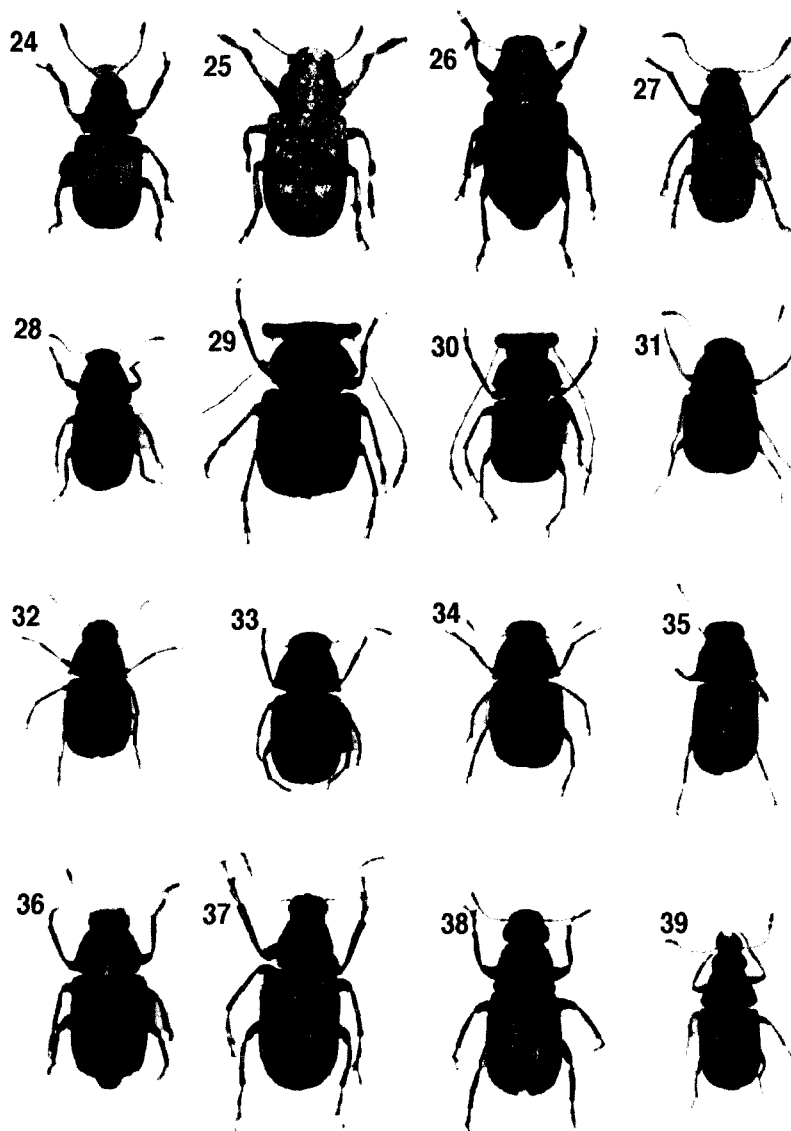
(Fig. 38)

*Tropideres confinis* Sharp, 1891, Trans. Ent. Soc. London: 308.*Ulorhinus confinis*: Jordan, 1928, Nov. Zool. 34: 121.

*Ulorhinus germanus* Jordan, 1928, Nov. Zool. 34: 89.

*Body length.* 3.0–3.5 mm (excl. head).

*Materials examined.* [SNU] ♂, Mt. Jiri, JN, 14 VII 1997 (S.W. Park); ♀, Mt. Sobaek, GB, 30 V 1989 (Y.J. Kwon); [KPNU] ♀, Mt. Seolak, GW, 9 VIII 1976 (Y.J. Kwon).



**Figs 24-39.** Adults: 24. *G. gibbosa* LeConte, ♀; 25. *T. cyaneotergum* Oda, ♂; 26. *T. naevulus* Faust, ♂; 27. *Autotropis basipennis* (Sharp), ♂; 28. *A. distinguenda* (Sharp), ♂; 29. *E. leucopis* (Jordan), ♂; 30. *E. foliatus* Frieser, ♂; 31. *U. angulatus* Park et Morimoto, ♀; 32. *U. difficilis* (Sharp), ♀; 33. *U. truncatus* (Sharp), ♀; 34. *U. triangulus* sp. nov., ♀; 35. *R. nigromaculata* Morimoto, ♂; 36. *G. nodulosus* (Sharp), ♂; 37. *H. analis* Morimoto, ♂; 38. *P. confinis* (Sharp), ♂; 39. *A. debilis* (Sharp), ♂.

*Distribution.* Korea (new record), Japan, Russian Far East.

*Remarks.* Interocular width of female is 1/3.5 times as wide as rostrum.

### Genus *Oxyderes* Jordan, 1928

*Oxyderes* Jordan, 1928, Nov. Zool. 34: 114. [TS: *Hypseus frenatus* Jordan]

### *Oxyderes fastigatus* (Jordan) 가슴흰점소바구미 (신칭)

*Apatenia fastigata* Jordan, 1924, Nov. Zool. 31: 236.

*Previous records.* Egorov (1996).

*Distribution.* Korea, Japan, Russian Far East, Taiwan.

### Genus *Aphulimia* Morimoto, 1972

*Aphaulimia* Morimoto, 1972, Bull. Gov. Forest Exp. Sta. (246): 35. [TS: *Tropideres debilis* Sharp]

### *Aphaulimia debilis* (Sharp) 얼룩소바구미

(Fig. 39)

*Tropideres debilis* Sharp, 1891, Trans. Ent. Soc. London: 311.

*Hypseus debilis*: Morimoto, 1962, Sci. Bull. Fac. Agr. Kyushu Univ. 19: 164.

*Phaulimia debilis*: Shibata, 1963, Ent. Rev. Japan 16: 3.

*Body length.* 3.0–3.9 mm (excl. head).

*Materials examined.* [SNU] ♂, Mt. Baekun, JN, 15 VIII 1993 (SW Park); ♂, Mt. Jiri, JN, 14 VI 1997 (SW Park); ♂, Mt. Odae, GW, 2 VII 1998 (SW Park).

*Previous records.* Senoh (1987), Hayashi *et al.* (1994).

*Distribution.* Korea, Japan.

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